

DIVING TANK POCKET BUOYANCY COMPENSATOR WITH ADJUSTABLE PRESSURE VALVE

ABSTRACT OF THE DISCLOSURE

5 A diving-tank-pocket buoyancy compensator has an expandable diving-tank
pocket (1) that envelopes a diving tank (2) which the diving-tank pocket is articulated
for containing in addition to at least an inflated buoyancy air cell (3). The buoyancy
air cell is in fluid communication with a cell end (4) of a buoyancy compensator (BC)
tube (5) which has a tank end (6) in fluid communication with an inside periphery of
10 the diving tank through a regulator tube (35) and a regulator valve (7) on the diving
tank. An adjustable pressure valve (8, 38) intermediate the tank end and the cell end
of the BC tube is provided to maintain a pre-determined pressure and resulting
constant volume of air in the buoyancy air cell for maintaining a desired constant
buoyancy.